Monitoring Data Record

Project Title: <u>I-306 DB (I-85 in Durham)</u> COE Action ID: <u>200020902</u>					
Stream Name: South Ellerbee Creek (Sites 2 & 13) DWQ Number: 001040					
City, County and other Location Information: <u>I-85 from W. of Broad St. to W. of Camden Ave. in</u>					
Durham County					
Date Construction Completed: <u>n/a</u> Monitoring Quarter: (4) of 4					
Ecoregion: 8 digit HUC unit 03020201					
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Rosgen Classification:					
Length of Project: 2,684' Urban or Rural: Urban Watershed Size:					
Monitoring DATA collected by: M. Green and J. Young Date: 12/14/06					
Applicant Information:					
Name: NCDOT Roadside Environmental Unit					
Address: 1425 Rock Quarry Rd. Raleigh, NC 27610					
Telephone Number: (919) 861-3772 Email address: mlgreen@dot.state.nc.us					
Consultant Information:					
Name:					
Address:					
Address: Email address:					
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Project Status: Complete					
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Monitoring Level required by COE and DWQ (404 permit/401 Cert.): Level (1) 2 3					
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Section 2. <u>PLANT SURVIVAL</u> Attach plan sheet indicating reference photos.
Identify specific problem areas (missing, stressed, damaged or dead plantings):
Estimated aggress and managed/maggined namedial action.
Estimated causes, and proposed/required remedial action:
ADDITIONAL COMMENTS: <u>Vegetation is dormant for the 4th quarter of monitoring</u> . South Ellerbee Creek is
highly vegetated throughout the entire length of the stream restoration project, except for the lower end of the stream
relocation at Sta. 4+800-L- LT. The stream relocation at this station will need some supplemental planting during the next
planting window. The vegetation noted onsite included black willow, silky dogwood, green ash, sycamore, sweetgum,
tulip poplar, wax myrtle, pine, mimosa, elm, river birch, lespedeza, smartweed, jewelweed, goldenrod, fennel, Juncus sp.,
sedge, ragweed, and various grasses.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

The streambanks are stabilized throughout South Ellerbee Creek. There are some areas of localized bank erosion but these areas have stabilized with vegetation. The beaver dams that were noted last monitoring quarter at Sta. 4+800-L- LT. and Sta. 1+020-CONAB- LT. have been removed. Beaver activity is still noted near Sta. 4+620-L- LT. The channel stability and cross vane near Sta. 5+480 LT. was reviewed by DOT, USACE, and DWQ during October 2006. They agreed that the section of stream was stable and does not require the use of rip rap and that the cross vane, although slightly damaged, is still performing the required functions and no remedial action is necessary. The sheet pilings located near Sta. 1+240-CONAB- LT. have been removed.

Date	12/14/06	
Inspected	PP #12 Upstream	
	Sta. 6+000-L- LT.	
Structure		
Type		
Is water		
piping		
through or		
around		
structure?		
Head cut or		
down cut		
present?		
Bank or scour	Yes	
erosion		
present?		
Other	Old culvert	
problems	footing in stream	
noted?	will be altered so	
	that it is not	
	directing water	
	flow into left	
	bank.	

NOTE: Attach separate narrative sheets to each monitoring report describing/discussing the overall monitoring results. Include the identification of specific problem areas/channel failures, estimated cause and proposed/required remedial action. This should include a brief discussion of any parameter that has changed significantly from as-built.

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PP #1 Upstream (STA. 4+160-L- LT.)



PP #1 Downstream (STA. 4+160-L- LT.)



PP #2 Upstream (STA. 4+160-L- LT.)



PP #2 Downstream (STA. 4+160-L- LT.)



PP #3 Upstream (STA. 4+160-L- LT.) December 2006



PP #3 Downstream (STA. 4+300-L- LT.)

SITE 2



PP #4 Upstream (STA. 4+440-L- LT.)



PP #4 Downstream (STA. 4+440-L- LT.)



PP #5 Upstream (STA. 4+440-L- LT.)



PP #5 Downstream (STA. 4+440-L- LT.)



PP #6 Upstream (STA. 4+620-L- LT.)
December 2006



PP #6 Upstream (STA. 4+620-L- LT.)

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PP #6 Downstream (STA. 4+620-L- LT.)



PP #7 Upstream (STA. 4+800-L- LT.)



PP #7 Downstream (STA. 4+800-L- LT.)



PP #8 Upstream (STA. 4+800-L- LT.)



PP #8 Downstream (STA. 4+800-L- LT.)



PP #9 Upstream (STA. 5+400-L- LT.)

December 2006



PP #10 Upstream (STA. 5+400-L- LT.)



PP #10 Downstream (STA. 5+400-L- LT.)



PP #11 Upstream (STA. 6+000-L- LT.)



PP #11 Downstream (STA. 6+000-L- LT.)



PP #12 Upstream (STA. 6+000-L- LT.)



PP #12 Downstream (STA. 6+000-L- LT.)



PP #13 Upstream (STA. 1+020 –CONAB- LT.)
December 2006



PP #13 Downstream (STA. 1+020 –CONAB- LT.)



PP #14 Upstream (STA. 1+020 -CONAB- LT.)



PP #14 Downstream (STA. 1+020 –CONAB- LT.)



PP #15 Downstream (STA. 1+240 –CONAB- LT.)